

What is claimed is:

1 1. A wireless network system comprising:
2 a radio-relay terminating station;
3 a radio-relay station being connected to said radio-relay
4 terminating station in a wireless manner;
5 a wireless terminal being connected to said radio-relay
6 station in a wireless manner; and
7 wherein said radio-relay terminating station preserves a
8 plurality of network addresses to be assigned to said radio-relay
9 station and to said wireless terminal, assigns a first network
10 address belonging to said plurality of network addresses to said
11 radio-relay station and collectively feeds an address pool making
12 up a part of said plurality of network addresses to the radio-relay
13 station and wherein said radio-relay station preserves said
14 address pool and assigns a second network address belonging to
15 said address pool to said wireless terminal.

1 2. The wireless network system according to Claim 1,
2 further comprising an other radio-relay station, wherein said
3 other radio-relay station preserves an other address pool being
4 different from said address pool and wherein, when said
5 radio-relay station is connected to said other radio-relay
6 station, said other radio-relay station assigns a third network
7 address belonging to said other address pool to said radio-relay
8 station.

1 3. The wireless network system according to Claim 2,
2 wherein, when said other radio-relay station is connected to said

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3 radio-relay terminating station, said other address pool makes
4 up of a part of said plurality of network addresses and said address
5 pool is not renewed and said second network address is not renewed.

1 4. The wireless network system according to Claim 2,
2 further comprising an other radio-relay terminating station which
3 preserves an other plurality of network addresses being different
4 from said plurality of network addresses and wherein, when said
5 other radio-relay station is connected to said other radio-relay
6 terminating station, said address pool is renewed to become still
7 an other address pool making up a part of said other plurality
8 of network addresses and said second network address is renewed
9 to become a fourth network address belonging to said other address
10 pool.

1 5. A network address assigning method for assigning a
2 network address to a radio-relay station and a wireless terminal
3 in a wireless network system made up of a radio-relay terminating
4 station, said radio-relay station, and said wireless terminal,
5 said method comprising:

6 a step of feeding a plurality of network addresses to said
7 radio-relay terminating station;

8 a step of assigning a first network address belonging to
9 said plurality of network addresses to said radio-relay station
10 being connected to said radio-relay terminating station in a
11 wireless manner;

12 a step of notifying said radio-relay station being
13 connected to said radio-relay terminating station in said
14 wireless manner of an address pool making up a part of said

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15 plurality of network addresses; and
16 a step of assigning a second network address belonging to
17 said address pool to said wireless terminal being connected to
18 said radio-relay station in a wireless manner.

1 6. The network address assigning method according to
2 Claim 5, wherein said wireless network system includes an other
3 radio-relay station having an other address pool being different
4 from said address pool and wherein, said radio-relay station is
5 connected to said other radio-relay station, a third network
6 address belonging to said other address pool is assigned to said
7 radio-relay station.

1 7. The network address assigning method according to
2 Claim 6, wherein, when said other radio-relay station is connected
3 to said radio-relay terminating station, said other address pool
4 makes up said plurality of network addresses and said address pool
5 is not renewed and said third network address is not renewed.

1 8. The network address assigning method according to
2 Claim 6, wherein said wireless network system includes an other
3 radio-relay terminating station and wherein, when said other
4 radio-relay station is connected to said other radio-relay
5 terminating station, said network address assigning method
6 comprises:
7 a step of feeding an other plurality of network addresses
8 being different from said plurality of network addresses to said
9 other radio-relay terminating station;
10 a step of notifying said other radio-relay station of said

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11 other address pool making up a part of said other plurality of
12 network addresses;

13 a step of notifying said radio-relay station of still an
14 other address pool making up a part of said other plurality of
15 network addresses; and

16 a step of assigning a fourth network address belonging to
17 still an other address pool to said wireless terminal.

1 9. The network address assigning method according to
2 Claim 8, wherein each of said plurality of network addresses
3 contains a value corresponding to said radio-relay terminating
4 station and wherein, when said value belonging to said first
5 network address is different from said value belonging to said
6 third network address, still said other address pool is notified.

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